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WHAT IS CLAIMED IS:

A compound of the formula:

5 wherein X is selected from the group consisting of: O, N-OR^a, N-NR^aR^b and C₁₋₆ alkylidene, wherein said alkylidene group is unsubstituted or substituted with a group selected from hydroxy, amino, O(C₁₋₄alkyl), NH(C₁₋₄alkyl), or N(C₁₋₄alkyl);

 R^1 is selected from the group consisting of hydrogen, $C_{1\text{-}6}$ alkyl, $C_{2\text{-}6}$ alkenyl, and $C_{2\text{-}6}$ alkynyl, wherein said alkyl, alkenyl and alkynyl groups are either unsubstituted or substituted with a group selected from OR°, SR°, NR°bR°, C(=O)R°, C(=O)CH_2OH, or phenyl, wherein said phenyl group can either be unsubstituted or substituted with 1-3 substituents independently selected from the group consisting of $C_{1\text{-}4}$ alkyl, OH, $O(C_{1\text{-}4}$ alkyl), NH₂, NH(C_{1\text{-}4} alkyl), NH(C_{1\text{-}4} alkyl)₂, halo, CN, NO₂, CO₂H, CO₂(C_{1\text{-}4} alkyl), C(O)H, and C(O)(C_{1\text{-}4} alkyl);)

 R^2 is selected from the group consisting of hydrogen, hydroxy, iodo, $O(C=O)R^c, \\ C(=O)R^c, CO_2R^c, C_{1-6alkyl}, C_{2-6alkenyl}, and C_{2-6alkynyl}, wherein said alkyl, alkenyl and alkynyl groups are either unsubstituted or substituted with a group selected from <math display="inline">OR^c, SR^c, NR^bR^c, C(=O)R^c, \\ C(=O)CH_2OH, or phenyl, wherein said phenyl group can either be unsubstituted or substituted with 1-3 substituents independently selected from the group consisting of <math display="inline">C_{1-4alkyl}, OH, O(C_{1-4alkyl}), \\ NH_2, NH(C_{1-4alkyl}), NH(C_{1-4alkyl})_2, halo, CN, NO_2, CO_2H, \\ CO_2(C_{1-4alkyl}), C(O)H, and C(O)(C_{1-4alkyl}); \\ \label{eq:constraint}$

or R^1 and R^2 , when taken together with the carbon atom to which they are attached, form a carbonyl group;

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R³ is selected from the group consisting of hydrogen, fluoro, chloro, bromo, iodo, cyano, NR^aR^c, OR^a, C(=O)R^a, CO₂R^c, CONR^aR^c, SR^a, S(=O)R^a, SO₂R^a, C₁₋₁₀alkyl, C₂₋₁₀alkynyl, C₂₋₁₀alkynyl, C₃₋₇cycloalkyl, 4-7 membered heterocycloalkyl, cycloalkylalkyl, aryl, heteroaryl, arylalkyl, and heteroarylalkyl, wherein said alkyl, alkenyl, alkynyl, cycloalkyl, aryl and heteroaryl groups are either unsubstituted or independently substituted with 1, 2 or 3 groups selected from fluoro, chloro, bromo, iodo, cyano, OR^a, NR^aR^c, O(C=O)R^a, O(C=O)NR^aR^c, NR^a(C=O)OR^c, NR^a(C=O)OR^c, C(=O)R^a, CO₂R^a, CONR^aR^c, CSNR^aR^c, SR^a, S(O)R^a, SO₂R^a, SO₂NR^aC, YR^d, and ZYR^d;

R⁴ is selected from the group consisting of hydrogen, hydroxy, amino, methyl, CF₃, fluoro, chloro, and bromo:

R⁵ and R⁶ are each independently selected from the group consisting of hydrogen, fluoro, chloro, bromo, methyl, amino, OR^b, OR^a, O(C=O)R^c, O(C=O)OR^c, and NH(C=O)R^c;

 ${\rm R}^7$ is selected from the group consisting of hydrogen, ${\rm OR}^b, {\rm NR}^b{\rm R}^c,$ fluoro, chloro, bromo, iodo, cyano, nitro, C $_{1\text{--}6}$ alkyl, C $_{2\text{--}6}$ alkenyl, CF $_3$, and CHF $_2$;

 $\rm R^8$ and $\rm R^9$ are each independently selected from the group consisting of hydrogen, $\rm C_{1-6}$ alkyl, $\rm C_{2-6}$ alkenyl, and $\rm C_{2-6}$ alkynyl,

or \mathbb{R}^8 and \mathbb{R}^9 , when taken together with the carbon atom to which they are attached, form a 3-5 membered cycloalkyl ring, or \mathbb{R}^8 and \mathbb{R}^9 , when taken together with the carbon atom to which they

or Ro and R9, when taken together with the carbon atom to which the are attached, form a carbonyl group;

 R^{10} is selected from the group consisting of hydrogen, C_{1-10} alkyl, C_{2-10} alkenyl, C_{2-10} alkynyl, C_{3-6} cycloalkyl, cycloalkylalkyl, aryl, heteroaryl, arylalkyl and heteroarylalkyl, wherein said alkyl, alkenyl, alkynyl, cycloalkyl,

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cycloalkylalkyl, aryl, heteroaryl, arylalkyl and heteroarylalkyl groups can be optionally substituted with a group selected from chloro, bromo. iodo, ORb, SRb, C(=O)Rb, or 1-5 fluoro. or R^{10} and R^{1} , when taken together with the three intervening carbon atoms to which they are attached, form a 5-6 membered cycloalkyl ring which can be optionally substituted C1 6alkyl; R¹¹ is selected from the group consisting of hydrogen and C₁₋₄alkyl; R^a is selected from the group consisting of hydrogen, C_{1-10} alkyl, and phenyl, wherein said alkyl group can be optionally substituted with a group selected from hydroxy, amino, O(C1-4alkyl), NH(C1-4alkyl), N(C1-4alkyl)2, phenyl, or 1-5 fluoro, and wherein said phenyl groups can either be unsubstituted or substituted with 1-3 substituents independently selected from the group consisting of C1-4alkyl, OH, O(C1-4alkyl), NH2, NH(C1-4alkyl), NH(C1-4alkyl)2, halo, CN, NO2, CO2H, CO2(C1-4alkyl), C(O)H, and C(O)(C1_4alkvl); Rb is selected from the group consisting of hydrogen, C₁₋₁₀alkyl, benzyl and phenyl, wherein said phenyl group can either be unsubstituted or substituted with 1-3 substituents independently selected from the group consisting of C1-4alkyl, OH, O(C1-4alkyl), NH2, NH(C1-4alkyl), NH(C1-4alkyl)2, halo, CN, NO2, CO2H, CO2(C1_4alkyl), C(O)H, and C(O)(C1_4alkvI);

R^c is selected from the group consisting of hydrogen, C₁₋₁₀alkyl and phenyl, wherein

said phenyl group can either be unsubstituted or substituted with 1-3 25 substituents independently selected from the group consisting of C1-4alkyl, OH, O(C1-4alkyl), NH2, NH(C1-4alkyl), NH(C1-4alkyl)2, halo, CN, NO2, CO2H, CO2(C1-4alkyl), C(O)H, and C(O)(C1-4alkyl);

or Ra and Rc, whether or not on the same atom, can be taken together 30 with any attached and intervening atoms to form a 4-7 membered ring; Rd is selected from the group consisting of NRbRc, ORa, CO2Ra, O(C=O)Ra, CN, NRc(C=O)Rb, CONRaRc, SO2NRaRc, and a 4-7 membered Nheterocycloalkyl ring that can be optionally interrupted by O. S. NRC.

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or C=O:

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Y is selected from the group consisting of CR^bR^c , C_{2-6} alkylene and C_{2-6} alkenylene, wherein said alkylene and alkenylene linkers can be optionally interrupted by O, S, or NR^c ;

Z is selected from the group consisting of O, S, NR^c, C=O, O(C=O), (C=O)O, NR^c(C=O) or (C=O)NR^c;

and the pharmaceutically acceptable salts thereof.

A compound of the formula:

wherein X is selected from the group consisting of O and N-ORa;

 R^1 is selected from the group consisting of hydrogen and C_{1-6} alkyl, wherein said alkyl group is either unsubstituted or substituted with a group selected from OR^c or $C(=O)R^c$;

 R^2 is selected from the group consisting of hydrogen, hydroxy, iodo, and C_{1-6} alkyl, wherein said alkyl group is either unsubstituted or substituted with a group selected from OR^c or $C(=O)R^c$;

 $m R^3$ is selected from the group consisting of hydrogen, chloro, bromo, iodo, cyano, $\rm C_{1-10}$ alkyl, $\rm C_{2-10}$ alkenyl, aryl and heteroaryl, wherein said alkyl, alkenyl, aryl and heteroaryl groups are either unsubstituted or independently substituted with 1, 2 or 3 groups selected from fluoro, chloro, bromo, iodo, cyano, $\rm OR^a$, $\rm NR^aR^c$, $\rm C(=O)R^a$, $\rm CO_2R^c$, $\rm NR^aC(=O)R^c$,

CONRaRc, CSNRaRc, SRa, YRd, and ZYRd;

 R^4 is selected from the group consisting of hydrogen, fluoro, hydroxy and methyl; R^5 and R^6 are each independently selected from the group consisting of hydrogen, fluoro, $O(C=O)R^c$ and OR^a :

 R^7 is selected from the group consisting of hydrogen, NR^bR^c , chloro, bromo, nitro and C_{1-6} alkyl;

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- ${\rm R}^{8}$ and ${\rm R}^{9}$ are each independently selected from the group consisting of hydrogen and $C_{1\text{-6}}{\rm alkyl};$
 - or R^8 and R^9 , when taken together with the carbon atom to which they are attached, form a carbonyl group;
- $\begin{array}{lll} 5 & R^{10} \text{ is selected from the group consisting of hydrogen, } C_{1-10} \text{alkyl, } C_{2-10} \text{alkenyl, } C_{3-} \\ & & & & & & & & & & & & \\ \text{6cycloalkyl and cycloalkylalkyl, wherein said alkyl, alkenyl, cycloalkyl and cycloalkylalkyl groups can be optionally substituted with a group selected from <math>OR^b$, SR^b , $C(=O)R^b$, or 1-5 fluoro; or R^{10} and R^1 , when taken together with the three intervening carbon atoms to which they are attached, form a 5-6 membered cycloalkyl ring $\begin{array}{c} & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & &$
 - which can be optionally substituted C_{1-6} alkyl; R^{11} is selected from the group consisting of hydrogen and C_{1-4} alkyl; R^a is selected from the group consisting of hydrogen, C_{1-10} alkyl, and phenyl, wherein said alkyl group can be optionally substituted with a group selected from hydroxy, amino, $O(C_{1-4}$ alkyl), $NH(C_{1-4}$ alkyl), $N(C_{1-4}$

alkyl)2, phenyl, or 1-5 fluoro:

- R^b is selected from the group consisting of hydrogen, C_{1-10} alkyl, benzyl and phenyl; R^c is selected from the group consisting of hydrogen and C_{1-10} alkyl and phenyl; or R^a and R^c , whether or not on the same atom, can be taken together with any attached and intervening atoms to form a 4-7 membered rine:
- R^d is selected from the group consisting of NRBRc, ORa, CO2Ra, O(C=O)Ra, CN, $NR^c(C=O)R^b, CONR^aR^c, SO_2NR^aR^c, \text{ and a 4-7 membered N-heterocycloalkyl ring that can be optionally interrupted by O, S, NR^c, or C=O: \\$
- 25 Y is selected from the group consisting of CR^bR^c , C_{2-6} alkylene and C_{2-6} alkenylene, wherein said alkylene and alkenylene linkers can be optionally interrupted by O, S, or NR^c ;
 - Z is selected from the group consisting of O, S, NR^c, C=O, O(C=O), (C=O)O, NR^c(C=O) or (C=O)NR^c:
- 30 and the pharmaceutically acceptable salts thereof.
 - A compound according to Claim 2, wherein X is selected from the group consisting of O, N-OH and N-OCH₃, and the pharmaceutically acceptable salts thereof.

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- $4. \qquad \text{A compound according to Claim 3, wherein } R^6 \text{ is selected from the group consisting of } OR^a \text{ and } O(C=O)R^c \text{ and the pharmaceutically acceptable salts thereof.}$
- A compound according to Claim 4, wherein R³ is selected from the group consisting of hydrogen, chloro, bromo, iodo, cyano, C₁₋₁₀alkyl, aryl and heteroaryl, wherein said alkyl, aryl and heteroaryl groups are either unsubstituted or independently substituted with 1, 2 or 3 groups selected from fluoro, chloro, bromo, cyano, NR^aR^c, C(=O)R^a, CO₂R^c, CONR^aR^c, SR^a, YR^d, and ZYR^d, and the pharmaceutically acceptable salts thereof.
 - $\mbox{6.} \qquad \mbox{A compound according to Claim 1 selected from the group consisting of:}$
 - 4-bromo-7-hydroxy-9a-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

9a-butyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

20 (3E)-9a-butyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one oxime;

9a-[(1E)-1-butenyl]-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

4-bromo-9a-butyl-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

4-bromo-9a-butyl-3-methylene-2,3,9,9a-tetrahydro-1H-fluoren-7-ol;

9a-butyl-4-cyano-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

30 4-benzyl-9a-butyl-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

9a butyl-7-hydroxy-4-(2-thienyl)-1,2,9,9a-tetrahydro-3H-fluoren-3-ene;

- 9a-butyl-7-hydroxy-4- $\{4-[2-(1-piperidinyl)ethoxy]phenyl\}-1,2,9,9a-tetrahydro-3$ *H*-fluoren-3-one hydrochloride;
- 9a-butyl-7-hydroxy-4-(4-hydroxyphenyl)-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
- $(2E)\hbox{-}3-[4-(9a\hbox{-butyl-}7-hydroxy-3-oxo-2,3,9,9a\hbox{-tetrahydro-}1$H-fluoren-4-yl)phenyl]-2-propenoic acid;$
- 9a-butyl-7-hydroxy-8-methyl-1,2,9,9a-3H-tetrahydro-fluoren-3-one;
- 4-bromo-9a-butyl-7-hydroxy-8-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - 9a butyl-4,8-dimethyl-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 15 9a-butyl-8-chloro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - (2SR,9aSR)-9a-butyl-2,4-dimethyl-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- (2SR,9aRS)-9a-butyl-2,4-dimethyl-7-hydroxy-2-propyl-1,2,9,9a-tetrahydro-3*H*-20 fluoren-3-one;
 - 9a-butyl-7-hydroxy-2,2,4-trimethyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
- (2SR,9aRS)-9a-butyl-7-hydroxy-2-iodo-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - (2SR,9aRS)-9a-butyl-2,7-dihydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- (2RS,9aSR)-9a-butyl-7-hydroxy-2-(2-hydroxyethyl)-4-methyl-1,2,9,9a-tetrahydro-3*H*-30 fluoren-3-one;
 - (2SR,9aSR)-2-allyl-9a-butyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one:

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(2RS,9aSR)-9a-butyl-7-hydroxy-2-(3-hydroxy-2-oxopropyl)-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one:

(9SR,9aSR)-7-hydroxy-4-methyl-9-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

9a-butyl-8-chloro-7-hydroxy-4-(trifluoromethyl)-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

4-acetyl-9a-butyl-8-chloro-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

9a-butyl-8-chloro-4-cyano-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

9a-butyl-4-ethyl-6-fluoro-7-hydroxy-8-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

 $15 \qquad 9 a\text{-butyl-8-chloro-6-fluoro-7-hydroxy-4-methyl-1,2,9,9} a\text{-tetrahydro-3} H\text{-fluoren-3-one}; \\$

9a-butyl-8-chloro-4-ethyl-6-fluoro-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

4-bromo-9a-butyl-8-chloro-6-fluoro-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

9a-butyl-8-chloro-6-fluoro-7-hydroxy-4-(trifluoromethyl)-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

2-hydroxy-5-methylgibba-1(10a),2,4,4b-tetraen-6-one;

4-bromo-9a-butyl-3-oxo-2,3,9,9a-1H-fluoren-7-yl pivalate;

7-hydroxy-4,9a-dimethyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

30 9a-ethyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

7-hydroxy-4-methyl-9a-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

7-hydroxy-9a-isobutyl-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

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- 9a-butyl-4-ethyl-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
- 9a-butyl-7-hydroxy-4-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 4,9a-dibutyl-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 9a-butyl-4-chloro-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 10 9a-butyl-7-hydroxy-4-iodo-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - 9a-butyl-7-hydroxy-4-trifluoromethyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 - 9a-butyl-7-hydroxy-4-phenyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
 - 9a-butyl-4-(2-furyl)-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
 - 7-hydroxy-9a-(3-iodopropyl)-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
- 20 7-hydroxy-4-methyl-9a-(2-methyl-1-propenyl)-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
 - 9a-butyl-4-{4-[2-(dimethylamino)ethoxy]phenyl}-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one hydrochloride:
- 25 9a-butyl-4-{4-(2-(diethylamino)ethoxy]-phenyl}-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one hydrochloride;
 - 9a-butyl-7-hydroxy-4-{4-[2-(1-pyrrolidinyl)ethoxy]phenyl}-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one hydrochloride;
- 9a-butyl-7-hydroxy-4-{4-[2-(4-morpholinyl)ethoxy]phenyl}-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one hydrochloride:

- 9a-butyl-4- $\{4-[3-(dimethylamino)propoxy]-phenyl\}$ -7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one hydrochloride;
- 9a-butyl-7-hydroxy-4-{4-[3-(1-piperidinyl)propoxy]phenyl}-1,2,9,9a-tetrahydro-3*H*-5 fluoren-3-one hydrochloride;
 - (3E)-9a-butyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one O-methyloxime;
- 10 (2SR,9aSR)-9a-butyl-2-ethyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
 - (2SR,9aSR)-9a-butyl-7-hydroxy-2-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 15 (2SR,9aSR)-9a-butyl-7-hydroxy-4-methyl-2-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
 - (2SR,9aSR)-4,9a-dibutyl-7-hydroxy-2-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- $20 \hspace{0.2in} (2SR,9aSR) 4-bromo-9a-butyl-7-hydroxy-2-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one; \\$
 - (2RS,9aSR)-9a-butyl-7-hydroxy-2-(2-oxoethyl)-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 25 (2SR,9aSR)-2,9a-dibutyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
 (2RS,9aRS)-9a-butyl-7-hydroxy-2,4-dimethyl-2-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 9a-butyl-7-hydroxy-2,2-dipropyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 9a-butyl-7-hydroxy-4-methyl-2,2-dipropyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

- (2SR,9aRS)-9a-butyl-2,7-dihydroxy-4-methyl-2-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 4-bromo-9a-butyl-2,2-diethyl-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

 (2*SR*,9a*SR*)-7-hydroxy-2,4,9a-trimethyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

 (2*SR*,9a*SR*)-7-hydroxy-4,9a-dimethyl-2-propyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
- $10 \qquad (2SR,9aSR)-9a-butyl-8-chloro-2-ethyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;$
 - $\hbox{8-chloro-9a-ethyl-7-hydroxy-4-methyl-1,} 2,9,9 \hbox{a-tetrahydro-3$$H-fluoren-3-one};$
- 8-bromo-9a-ethyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 9a-ethyl-7-hydroxy-4,8-dimethyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
- 8-chloro-7-hydroxy-4-methyl-9a-propyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one; 20
 - 8-bromo-7-hydroxy-4-methyl-9a-propyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 7-hydroxy-4,8-dimethyl-9a-propyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
- 8-chloro-7-hydroxy-4-methyl-9a-[(1E)-1-propenyl]-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
 - 8-bromo-9a-butyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 30 9a-butyl-7-hydroxy-4,8-dimethyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 9a-butyl-7-hydroxy-4-methyl-8-nitro-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 8-amino-9a-butyl-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

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9a-butyl-7-hydroxy-4-(4-hydroxyphenyl)-8-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;

- $9 a-butyl-7-hydroxy-8-methyl-4-\{4-[2-piperidinyl)-ethoxy]phenyl\}-1,2,9,9 a-tetrahydro-3 \textit{H-fluoren-}3-one;$
 - 4-bromo-7-hydroxy-9a-propyl-1H-fluorene-3,9(2H,9aH)-dione;
 - 4,8-dibromo-7-hydroxy-9a-propyl-1H-fluorene-3,9(2H,9aH)-dione;
- 4-bromo-9a-butyl-7-hydroxy-6-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one; 9a-butyl-8-chloro-4-methyl-3-oxo-2,3,9,9a-tetrahydro-1*H*-fluoren-7-yl pivalate;
- 9a-butyl-6,8-difluoro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 9a-butyl-4-ethyl-6,8-difluoro-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 4-bromo-9a-butyl-6,8-difluoro-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
- 8-bromo-9a-butyl-4-chloro-8-difluoro-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 9a-butyl-4,8-dibromo-6-fluoro-7-hydroxy-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

 9a-ethyl-6-fluoro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

 9a-ethyl-6,8-difluoro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
- 8-chloro-9a-ethyl-6-fluoro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 8-bromo-9a-ethyl-6-fluoro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;
 9a-ethyl-6-fluoro-7-hydroxy-4,8-dimethyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one;

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- 4,9a-diethyl-6,8-difluoro-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one; 4-bromo-8-chloro-9a-ethyl-6-fluoro-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one: 5 4-bromo-8-chloro-9a-(cyclopentylmethyl)-6-fluoro-7-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one: 9a-ethyl-5-fluoro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one: 8-bromo-9a-ethyl-5-fluoro-7-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one; 9a-ethyl-6,7-dihydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one; 15 8-bromo-9a-ethyl-6,7-dihydroxy-4-methyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one; 9a-ethyl-6-hydroxy-4-methyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one; 9a-ethyl-6-hydroxy-4-vinyl-1,2,9,9a-tetrahydro-3*H*-fluoren-3-one; 4-allyl-9a-ethyl-6-hydroxy-1,2,9,9a-tetrahydro-3H-fluoren-3-one: 2-hydroxy-5-methyl-7,8,9,10-tetrahydro-7,10a-methanocycloocta[a]inden-6(11H)one:
 - 7-amino-4-bromo-9a-butyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one:
 - 7-amino-4,8-dibromo-9a-ethyl-1,2,9,9a-tetrahydro-3H-fluoren-3-one;
- 30 and the pharmaceutically acceptable salts thereof .;
 - A pharmaceutical composition comprising a compound according to Claim 1 and a pharmaceutically acceptable carrier.

- 8. A pharmaceutical composition made by combining a compound according to Claim 1 and a pharmaceutically acceptable carrier.
- A process for making a pharmaceutical composition comprising combining a compound according to Claim 1 and a pharmaceutically acceptable carrier.
- A method of eliciting an estrogen receptor modulating effect in a mammal in need thereof, comprising administering to the mammal a therapeutically
 effective amount of a compound according to Claim 1.
 - 11. The method according to Claim 10 wherein the estrogen receptor modulation effect is an estrogen receptor antagonizing effect.
 - The method according to Claim 11 wherein the estrogen receptor antagonizing effect is an ERα receptor antagonizing effect.
 - 13. The method according to Claim 11 wherein the estrogen receptor antagonizing effect is an ER β receptor antagonizing effect.
 - 14. The method according to Claim 11 wherein the estrogen receptor antagonizing effect is a mixed ER α and ER β receptor antagonizing effect.
- The method according to Claim 10 wherein the estrogen
 receptor modulation effect is an estrogen receptor agonizing effect.
 - 16. The method according to Claim 15 wherein the estrogen receptor agonizing effect is an ΕRα receptor agonizing effect.
- The method according to Claim 15 wherein the estrogen receptor agonizing effect is an ERβ receptor agonizing effect.
 - 18. The method according to Claim 15 wherein the estrogen receptor agonizing effect is a mixed ER α and ER β receptor agonizing effect.

- 19. A method of treating or preventing hot flashes in a mammal in need thereof by administering to the mammal a therapeutically effective amount of a compound according to Claim 1.
- 5 20. A method of treating or preventing anxiety in a mammal in need thereof by administering to the mammal a therapeutically effective amount of a compound according to Claim 1.
- 21. A method of treating or preventing depression in a mammal in 10 need thereof by administering to the mammal a therapeutically effective amount of a compound according to Claim 1.